

SUB E137

--40. The GUI as recited in Claim 39, wherein the indicia of priority is a bid price.--

--41. The GUI as recited in Claim 39, wherein the indicia of priority is an ask price.--

--42. The GUI as recited in Claim 39, wherein the graphic indicators are characters identifying a respective one of the digital information blocks.--

--43. The GUI as recited in Claim 42, wherein statistical measures regarding the indicia of priority are displayed for all users on the GUI.--

--44. The GUI as recited in Claim 43, wherein at least one of the statistical measures is represented graphically.--

SUB D87

--45. The GUI as recited in Claim 44, wherein:
the at least one of the statistical measures is represented graphically as a bar graph; and
the median of the at least one statistical measures is graphically represented on the bar graph as a line.--

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--46. The GUI as recited in Claim 45, wherein the time derivative of the median is graphically represented as an arrow attached to the line representing the mean.--

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SUB E157

--47. The GUI as recited in Claim 45, wherein:
at least one of the statistic measures is represented graphically; and
the corresponding of the at least one of the user-specific statistical measures is represented by symbols proximate to the graphically represented statistical measures.--

THIRD PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.111

SUB DA7

--48. The GUI as recited in Claim 43, wherein user-specific statistical measures corresponding to the indicia of priority established by a respective one of the uses¹¹² is presented by the GUI for only that respective one of the users.--

SUB E17

--49. The GUI as recited in Claim 39, wherein the total number of users^{no out 112} viewing the GUI is enumerated and displayed by the GUI.--

--50. The GUI as recited in Claim 39, wherein the total number of transactions^{no out 112} executed over a specified time period is displayed by the GUI.--

--51. The GUI as recited in Claim 39, wherein the graphic indicators are hash marks^{nm}, each hash mark being directly associated to a respective digital information block.--

--52. The GUI as recited in Claim 39, wherein the graphic indicators are ordered in queues, each indicator in a queue having the same indicia of priority.--

--53. The GUI as recited in Claim 52, wherein within a given queue, the graphic indicators are ordered according to the time they were received.--

--54. The GUI as recited in Claim 52, wherein within a given queue, the graphic indicators are, in addition, ordered according to additional information contained in the digital information blocks.--

SUB DA7

--55. The GUI as recited in Claim 39, wherein the graphic indicators are active computer^{nm} links to a sequence of computer instructions.--

SUB E197

--56. The GUI as recited in Claim 39, wherein the graphic indicator generated by a respective user is "highlighted" when the user opens the GUI.--

--57. The GUI as recited in Claim 39, wherein:
substantially all of the GUI is visible to all users; and
the GUI presents user-specific information on to the user generating a respective one of the digital information blocks.--

--58. The GUI as recited in Claim 39, wherein the graphic indicators are Document Control Numbers.--

Can --59. The GUI as recited in Claim 39, wherein the graphic indicators are file names.--

SUB D117

--60. The GUI as recited in Claim 39, wherein the graphic indicators are active links to the associated digital information blocks.-- NM

SUB E217

--61. The GUI as recited in Claim 39, wherein the graphic indicators are reordered as digital information blocks are added and removed.--

--62. The GUI as recited in Claim 39, wherein the user can change the indicia of priority of the associated digital information block.--

--63. The GUI as recited in Claim 39, wherein the user can remove a respective digital information block.--

SUB D127

--64. The GUI as recited in Claim 39, wherein the graphic indicators are direct computer
links to a buffer memory containing the associated digital information block.--

SUB E237

--65. The GUI as recited in Claim 39, wherein the graphic indicators are segments of a
bar in a bar graph, each segment being directly associated with a respective digital information
block.--

SUB D137

--66. The GUI as recited in Claim 65, wherein statistical quantities associated with the bar
graph are displayed for all users on the GUI.--

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SUB E257

--67. The GUI as recited in Claim 66, wherein at least one of the statistical measures is
represented graphically.--

SUB D147

--68. The GUI as recited in Claim 67, wherein the at least one of the statistical measures
is the mean of the bar graph, which mean is represented graphically on the bar graph as a line.--

--69. The GUI as recited in Claim 68, wherein the time derivative of the mean is
graphically represented on the bar graph as an arrow attached to the line representing the mean.--

SUB E277

--70. A graphic user interface (GUI) instantiated by computer software, the GUI representing
a self-organizing marketplace for exchange of a selected type of one of goods and services between
buyers and sellers, comprising digital information blocks generated by a plurality of respective users,
wherein:

the GUI employs graphic indicators to represent offers between the buyers and the sellers;

the GUI displays a set of first graphic indicators representing offers to buy, the offers being generated by a plurality of first users, in an order established by the first users, each of the offers having an associated bid price; and

the GUI displays a set of second graphic indicators representing offers to sell, the offers being generated by a plurality of second users, in an order established by the second users, each of the offers having an associated ask price,

whereby the GUI displays the graphic indicators for all offers to buy and sell to thereby permit all of the users to visualize the marketplace.--

Cl out --71. The GUI as recited in Claim 70, wherein the graphic indicators correspond to one of the bid price and the ask price.--

--72. The GUI as recited in Claim 71, wherein the graphic indicators further comprise information extracted from the digital information blocks.--

--73. The GUI as recited in Claim 72, wherein the information extracted from the digital information blocks further defines the one of the bid price and the ask price.--

--74. The GUI as recited in Claim 70, wherein the GUI presents statistical information corresponding to at least one of all bid prices and all ask prices.--

--75. The GUI as recited in Claim 74, wherein the statistical information is represented graphically. --

--76. The GUI as recited in Claim 74, wherein the graphically represented statistical information includes a symbol identifying one of the bid price and the ask price for each respective one of the first and the second users.--

--77. The GUI as recited in Claim 76, wherein the GUI displays the graphically represented statistical information and arithmetic calculations based on the statistical information.--

SUB D157 --78. The GUI as recited in Claim 75, wherein a selected one of the arithmetic calculations ^{no ent} is presented only to a corresponding one of the first and second users.-- MM

Cl cont SUB E297 --79. The GUI as recited in Claim 70, wherein the total number of the first and second users viewing the GUI is presented by the GUI.--

--80. The GUI as recited in Claim 70, wherein the total number of transactions executed during a predetermined period time is presented by the GUI.--

--81. The GUI as recited in Claim 70, wherein the graphic indicators are hash marks, each hash mark being directly associated to a respective digital information block.--

--82. The GUI as recited in Claim 70, wherein the graphic indicators are ordered in queues, each indicator in a queue having the same bid price or ask price.--

--83. The GUI as recited in Claim 77, wherein, within a given one of the queues, the graphic indicators are ordered according to the time they were received.--

--84. The GUI as recited in Claim 77, wherein, within a given one of the queues, the graphic indicators are sorted based on information extracted from the respective digital information blocks.--

SUB D167 --85. The GUI as recited in Claim 70, wherein the graphic indicators are active computer links to a sequence of computer instructions.--

SUB E317 --86. The GUI as recited in Claim 70, wherein the graphic indicator generated by a respective one of the first and second users is identified to that user when the GUI is opened.--

--87. The GUI as recited in Claim 70, wherein the graphic indicators are Document Control Numbers.--

Cl cont --88. The GUI as recited in Claim 70, wherein the graphic indicators are file names.--

SUB D177 --89. The GUI as recited in Claim 70, wherein the graphic indicators are active links to the associated digital information blocks.-- NM

SUB E337 --90. The GUI as recited in Claim 70, wherein the graphic indicators are reordered as digital information blocks are added and removed.--

--91. The GUI as recited in Claim 70, wherein one of the first and second users can change the indicia of priority of the associated digital information block.--

--92. The GUI as recited in Claim 70, wherein one of the first and second users can remove the associated digital information block.--

SUB D18> --93. The GUI as recited in Claim 70, wherein the graphic indicators are direct computer links to a buffer memory containing the corresponding digital information blocks.---

--94. The GUI as recited in Claim 70, wherein the graphic indicators are segments of a bar in a bar graph, each segment being directly associated with a respective digital information block.--

--95. The GUI as recited in Claim 94, wherein statistical quantities associated with the bar graph are displayed for all users on the GUI.--

--96. The GUI as recited in Claim 95, wherein at least one of the statistical measures is represented graphically.--

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SUB D19> --97. The GUI as recited in Claim 96, wherein the at least one of the statistical measures is the mean of the bar graph, which mean is represented graphically on the bar graph as a line.--

--98. The GUI as recited in Claim 97, wherein the time derivative of the mean is graphically represented on the bar graph as an arrow attached to the line representing the mean.--

--99. A method of establishing an electronic marketplace using a graphical user interface (GUI) linked to a commonly accessible buffer memory, the GUI being visible to first, second, and third users, and the GUI displaying graphic indicators corresponding to offers to trade, the graphic indicators comprising:

a set of first indicators representing offers to buy, the buy offers being generated by a plurality of first users and stored in the buffer memory in an order established by the first users, each of the offers having an associated bid price,

a set of second indicators representing offers to sell, the sell offers being generated by a plurality of second users and stored in a buffer memory, in an order established by the second users, each of the sell offers having an associated ask price;

wherein:

each of the buy offers and the sell offers can be accepted by any one of the first, second and third users viewing the GUI.--

Claim
--100. A method operating a computer system to establish an electronic marketplace, the computer system including a first computer and a plurality of second computers, each of the first and second computers including a memory, an input device, software, and a display, respectively, each of the second computers being operatively connected to the first computer by a respective digital communications channel, the memory of the first computer storing a plurality of bid and ask offers, all of the offers being represented in a graphic user interface (GUI) where each one of the offers is represented by a graphic indicator, the GUI being displayed by the respective display of each of the second computers so as to be visible to all second users, the method comprising the steps of:

accepting one of the bid and ask offers by clicking on the graphic indicator in the GUI associated with the respective one of the bid and ask offer, the accepting being performed by one of the second users employing a respective second computer, and

conveying the acceptance to the first computer, the first computer blocking all subsequent attempts to accept the accepted one of the bid and ask offers.--

--101. The method as described in Claim 100, further comprising the step of:
removing the graphic indicator of the accepted one of the bid and ask offers from the GUI.--

--102. The method as described in Claim 101, further comprising the step of: